PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ubstitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of

Complete if Known						
Application Number	10/690994					
Filing Date	October 21, 2003					
First Named Inventor	Edgar B. Cahoon et al.					
Group Art Unit	Unknown					
Examiner Name	Unknown					
Attorney Docket Number	BB1295 USCNT					

			U.S. PATENT DOCUM	MENTS	
Examiner (U.S. Patent Document	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant
	Cite No.'	Number Kind Code ² (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
LZ		US 6,100,077	STURLEY ET AL.	08-08-2000	
11/		US 6,444,876B1	LASSNER ET AL.	09-03-2002	
V		US 6,552,250B1	NYKIFORUK ET AL.	04-22-2003	
		<u> </u>			
	<u> </u>				
		<u> </u>			
					<u> </u>
				,	<u> </u>
	i				

			FO	REIGN	PATENT DOCUM	ENTS		
Examiner	Cite	Cite Foreign Patent Document		The first of the contract of		Date of Publication of	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Office ³		Code⁵ (if own)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	Te
LZ		World	97/45439	A1	The Trustees of Columbia University in the City of New York	12-04-1997		
1/		World	99/67403	A1	The Regents of the University of California	12-29-1999		
V		World	99/63096	A2	Calgene LLC	12-09-1999		
				 				·
				 				
	<u> </u>		-	<u> </u>	•			

Examiner Signature	/Li Zheng/	Date Considered	11/02/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

¹ Unique citation designation number, 2 See attached Kinds of U.S. Patent Documents, 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 1 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark hee if English language Translation is attached.

Approved for use through 10/31/2002. OM8 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unitess it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 3

Complete if Known						
Application Number	10/690994					
Filing Date	October 21, 2003	_				
First Named Inventor	Edgar B. Cahoon et al.					
Group Art Unit	Unknown	_				
Examiner Name	Unknown					
Attorney Docket Number	BB1295 USCNT	フ				

	·	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ,
LZ		EMBL SEQUENCE DATABASE LIBRARY ACCESSION NO: AC0064579, 08-01-1998, ROUNSLEY, S.D. ET AL., Putative Acyl-COA: Cholesterol Acyltransferase	
1		PETER OELKERS ET AL., J. Biol. Chem., vol. 273(41):26765-26771, 1998, Characterization of Two Human Genes Encoding Acyl Coenzyme A: Cholesterol Acyltransferase-related Enzymes	
		EMBL SEQUENCE DATABASE LIBRARY ACCESSION NO: AC005917, X. LIN ET AL., 11-04-1998, Sequence and analysis of chromosome II of Arabidopsis thaliana	
		EMBL SEQUENCE DATABASE LIBRARY ACCESSION NO: AC003058, S.D. ROUNSLEY ET AL., 11-18-1997, Sequence and analysis of chromosome II of Arabidopsis thaliana	
		RANDALL J. WESELAKE ET AL., J. Exp. Bot., vol. 49(318):33-39, 1998, Triacylglycerol biosynthesis and gene expression in microspore-derived cell suspension cultures of oilseed rape	
		DAWN LITTLE ET AL., Biochem. J., vol. 304:951-958, 1994, Solubilization and characterization of diacylglycerol acyltransferase from microspore-derived cultures of oilseed rape	
		FERMIN PACHECO-MOISES ET AL., Plant Physiol., vol. 114:1095-1101, 1997, Regulation of Acyltransferase Activity in Immature Maize Embryos by Abscisic Acid and the Osmotic Environment	
		SYLVAINE CASES ET AL., Proc. Natl. Acad. Sci., vol. 95:13018-13023, 10/1998, Identification of a gene encoding an acyl CoA:diacylglycerol acyltransferase, a key enzyme in triacylglycerol synthesis	
		MARGRIT FRENTZEN, Fett-Lipid, vol. 100:161-166, 1998, Acyltransferases from basic science to modified seed oils	
		KENICHI ICHIHARA ET AL., Biochimica et Biophysica Acta, vol. 958:125-129, 1988, Diacylglycerol acyltransferase in maturing safflower seeds: its influences on the fatty acid composition of triacylglycerol	
∇		CORY L. NYKIFORUK ET AL., Plant Physiol., vol. 121(3):1053, 1999, Isolation and characterization of a cDNA encoding s second putative diacylglycerol acyltransferase from a Microspore-Derived cell suspension culture of Brassica napus L. cv Jet Neuf (ACCESSION NO. AF184434) (PGR 99-158)	

Examiner Considered Conside	06
--	----

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Palent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of 3

Complete if Known					
Application Number	10/690994	_			
Filing Date	October 21, 2003				
First Named Inventor	Edgar B. Cahoon et al.				
Group Art Unit	Unknown				
Examiner Name	Unknown				
Attorney Docket Number	BB1295 USCNT				

	,	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	·
Examiner Cit		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
LZ		DOUGLAS H. HOBBS ET AL., FEBS Letters., vol. 452:145-149, 1999, Cloning of a cDNA encoding diacylglycerol actyltransferase from Arabidopsis thaliana and its functional expression	
ı		EMBL SEQUENCE DATABASE LIBRARY ACCESSION NO: Q9XGR5, 11-01-1999, C.L. NYKIFORUK ET AL., A cDNA exhibiting high homology to diacylglycerol acyltransferase (DGAT) in a microspore-derived cell suspension culture from Brassica napus cv. Jet Neuf	
		EMBL SEQUENCE DATABASE LIBRARY ACCESSION NO: Q9S7F2, 05-01-2000, J. ZOU ET AL., The Arabidopsis thaliana TAG1 gene encodes for a diacylglycerol acyltranferase	
		EMBL SEQUENCE DATABASE LIBRARY ACCESSION NO: AJ238008, 06-18-1999, J. ZOU ET AL., The Arabidopsis thaliana TAG1 gene encodes for a diacylglycerol acyltranferase	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3135275, 05-16-1998, ROUNSLEY, S.D. ET AL., Arabidopsis thaliana chromosome II BAC F27F23 genomic sequence	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3135276, 05-16-1998, ROUNSLEY, S.D. ET AL., Arabidopsis thaliana chromosome II BAC F27F23 genomic sequence	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3746533, 10-15- 1998, P. OELKERS ET AL., Characterization of two human genes encoding acyl coenzyme A: cholesterol acyltransferase-related enzymes	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3859934, 11-11- 1998, S. CASES ET AL., Identification of a gene encoding an acyl CoA:diacylglycerol acyltransferase, a key enzyme in triacylglycerol synthesis	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 5050913, 06-10-1999, D.H. HOBBŞ ET AL., Cloning of a cDNA encoding diacylglycerol actyltransferase from Arabidopsis thaliana and its functional expression	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 5579408, 11-30- 1999, C. L. NYKIFORUK ET AL., Isolation and characterization of a cDNA encoding a second putative diacytglycerol acyttransferase from a Microspore-dervied cell suspension culture of Brassica napus L.	
		JOSEPH J. KIEBER ET AL., Cell, vol. 72:427-441, 1993, CTR1, a Negative Regulator of the Ethylene Response Pathway in Arabidopsis, Encodes a Member of the Raf Family of Protein Kinases	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3135250, 05-16-1998, S. D. ROUNSLEY ET AL., Arabidopsis thaliana chromosome II BAC F27F23 genomic sequence	
		MARIA ANDERSSON ET AL., J. Lipid Res., vol. 35:535-545, 1994, Purification of diacylglycerol:acyltransferase from rat liver to near homogeneity	
V		BEVERLY HAY AND JAY M. SHORT, Strategies, VOL. 5:16-18, 1992, ExAssist™ Helper Phage and SOLR™ Cells for Lambda ZAP(R) II Excisions	

Examiner /Li Zheng/	Date Considered	11/02/2006
---------------------	--------------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

ase	type	а	plus	sign	(+)	inside	this	box

PTO/SB/08B(08-00)

Approved for use through 10/31/2002. OMB 0551-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid CMB control number

stitute for form 1449A/PTO

PATEN

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 3 Sheet

Complete if Known						
Application Number	10/690994					
Filing Date	October 21, 2003					
First Named Inventor	Edgar B. Cahoon et al.					
Group Art Unit	Unknown					
Examiner Name	Unknown					
Attorney Docket Number	BB1295 USCNT					

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner ·	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ²
LZ	NO.	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2414087, 9-19-1997, T. NEWMAN ET AL., Genes galore: a summary of methods for accessing results rom large-scale partial sequencing of anonymous Arabidopsis cDNA clones	•
		COLETTE JAKO ET AL., Plant Physiol. vol. 126:861-874, 2001, Seed-Specific Over-Expression of an Arabidopsis cDNA Encoding a Diacylglycerol Acyltransferase Enhances Seed Oil Content and Seed Weight	
		PIERRETTE BOUVIER-NAVE ET AL., Eur. J. Biochem. vol. 267:85-98, 2000, Expression in Yeast and Tobacco of Plant cDNAs encoding Acyl CoA:diacylglycerol Acyltransferase	· .
		VESNA KATAVIC ET AL., Plant Physiol. vol. 108:399-409, 1995, Alteration of Seed Fatty Acid Composition by an Ethyl Methanesulfonate-Induced Mutation in Arabidopsis thaliana Affecting Diacylglycerol Acyltransferase Activity	
$\sqrt{}$		JITAO ZOU ET AL., Plant Journal. vol. 19(6):645-653, 1999, The Arabidopsis thaliana TAG1 mutation in a diacylglycerol acyltransferase gene	
			
			ļ
		· ·	
		·	
	-		
	ļ		
	 		

Examiner Signature /Li Zheng/ Date Considered	11/02/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.